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his bureaucenty and started out to surrender itself but to a dictator. "In variable doses," he continued,

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able to do so by the deadline to-

Boost in Cost

Of S. D. Relief

1938-39 fiscal year, starting July 1, will require \$4,158,711 in relief, of

which all but \$1,503,664 will be fur-

nished by state and federal govern-

in the history of the county.

ments, a budget drafted last night

Tangayers here during the current

1937-36 fiscal year, 18 and June 30,

San Diego's needy during the "they undertook credit and cur-(Continued on Page 4, Col. 6)

'WON'T RUN IN '40,' by the county welfare loard end. mated. The estimated welfare ex. ROOSEVELT QUOTED IN PARIS PAPER ers acked to provide EL272.834 PAT

countries of Europe. Already, he uses thed and, "it would startle the people Rep. Moulton (D-Ln.) was the ers over their daily life they have Signatures of a majority of the surrendered to the president and 435 members of the house are nee-None of the European nations, he committees from consideration of

month

Speaker Bankhead, rapping vain

Bules Group Eclieved The 218th signature was affixed ion than three hours after the pe-

essary to petitions discharging house

Completion of the wage-hour pe ities relieves the rules committee from further action on the measure and has the effect of bringing the

evised wage-hour bill to the house losr for consideration within this On several occasions, the men-bers altempting to affix their signa-tures threatened to tear the paper

Royal Raymond Rife, lott. (400) IS land, with the Rife say apparate

San Diego, California, Friday, May 6, 1938

Cancer Blow Seen After 18-year Toil by Rife

By Newell Jones

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Discovery that disease organisms, including one occurring in dread cancer, can be killed by bombarding them with radio waves tuned to a particular length for each kind of organism was claimed today by a San Diego Scientist Royal Raymond Rife, Pt. Loma. He added that he had isolated this cancer organism but is not positive yet that it is the direct cause of the disease. The discovery promised fulfillment of man's age-old hope for a specific destroyer of all his infections diseases, although rife avoided any claim that he had established this yet. He announced his work in the conservative manner of scientists, but his reports indicated the great promise in the telling of successful bombardment of thousands of cultures of organisms. Organisms from tuberculosis, cancer, sarcoma, the tumor resembling cancer but not so mortal as it; deadly streptococcus infection, typhoid fever, staphylococcus infection and two forms of leprosy were among many which the scientist reported are killed by the waves. He said that his laboratory experiments indicated that the method could be used successfully and safely on organisms at work in living tissues. "We do not wish at this time," Rife commented, " to claim that we cured cancer, or any other disease, for that matter. But we can say that these waves or the 'ray' has the power of devitalizing disease organisms, of 'killing ' them, when tuned to an exact particular wave length, or frequency, for each different organism. This applies to the organisms both in their free state and, with certain exceptions, when they are living tissues."

Exceptions Rare

The exceptions Rife explained occur when some unsolved quirk of chemical action within the living body apparently arises to provide protection to the organisms. They are encountered only occasionally, he said, and may be overcome in future studies. The waves are generated in a new kind of frequency device developed by Rife and one his associates, Philip Hoyland, Pasadena engineer. They are turned upon the organisms through a special directional antenna devised by the two. "We are not ready," the Pt. Loma man said, " to reveal the exact nature of the waves nor the lengths, or frequencies. It can be said, how ever, that they cover a wide band." Just what this Rife ray does to the organisms to devitalize them is not yet known. Because each organism requires a different wave length, it may be that whatever, befalls these tiny slayers of man is something similar to the phenomenon occurring when one musical tuning fork is set in a vibration by sound waves emanating from another fork struck nearby. Another example is the vibration which almost everyone has noticed a pipe organ note causes in windows or furniture of the room where the instrument is being played. Again, a similar thing happens when a radio cabinet rattles from sounds issuing from its speaker.

Second in Harmony

It is commonly known that the sound from the first object causes the second to vibrate in harmony, so to speak. The thing where the original sound-producing vibration occurs has the same pitch, wavelength, frequency-whichever one chooses to call it-as the one giving the sympathetic response. Or the one may be just a harmonic of the other, may have a frequency which only is a part of a complex frequency possessed by the other, that is, one may be a simple tone which is one element in a complex tone characterizing the other. Most persons known, too, that if the original vibration is forceful enough, such objects as a nearby vase or water glass which chance to be thus "in tune" may be shattered by the sympathetic vibration resulting within their structures. Rife thinks that the lethal frequencies for the various disease organisms are as in the sound waves coordinates of frequencies existing in the organisms themselves. If this is the explanation, it means that the Rife ray probably causes the disease organisms to disintegrate or partially disintegrate, just as the vase and glass. Several bits of evidence indicate that his is exactly what happens. The San Diego man explained that he found that different disease organisms have particular individual chemical constituents and this led him to suspect that the organisms were electrical in character and might coordinate with variable electrical frequencies. His observations have been confirmed by certain Brittish medical researchers, who say that they found that each kind of disease organism has a distinct radio wave length. So theoretically the Pt. Loma scientist's ray might make the tiny foes of mankind behave just as the vase and glass.

Organisms Writhe

And, watched under the microscope, the organisms seem to do just that. When the ray is directed upon them, they are seen to behave very curiously, some kinds do literally disintegrate, and others writhe as if in agony and finally gather together in deathly unmoving clusters. Brief exposure to the tuned frequencies, Rife commented, brings the fatal reactions. In some organisms, it happens in seconds. After the organisms have been bombarded, the laboratory reports show the are dead. They have become devitalized and no longer exhibit life, do not propagate their kind and produce no disease when introduced into the bodies of experimental animals.

Hailed as Genius

The discovery of the ray's power traces back, Rife recounted, to a day 18 years ago in his Pt. Loma laboratory. It was then his idea came to him. He has been tirelessly pursuing it to its conclusion down through all of those years. The San Diego man, who is hailed by many as veritable genius, has experimented and is credited with important studies, inventions and discoveries in an unbelievably wide and varied array of subjects. These fields of pursuit range from ballistics and racing auto construction to optics and many equally profound sciences. And in 1920 he was investigating the possibilities of electrical treatment of diseases. It was then that he noticed those individualistic differences in the chemical constituents of disease organisms and saw the indication of electrical characteristics, observed electrical polarities in the organisms. Random speculation on the observation suddenly stirred in his mind a startling astonishing thought. "What would happen if I subjected these organisms to different electrical frequencies?" he wondered.

Grows Cultures

Rife built a simple frequency generating apparatus of about 8 or 10 watts output. He grew some cultures of bacteria. Then he began the studies whose reported results now promise to revolutionize the entire theory and the whole treatment of the human diseases, other than those of a functional or accidental nature. Machine and cultures ready, the San Diegan anxiously, feverishly began testing his idea. Would those minute killers of men die under the frequency bombardment?

It would be a patience-wracking task, for there was no way to measure what wave length or frequencies the organism might have. In the quite loneliness of the laboratory, rife simply had to turn and turn and turn the tuning dials of his machine and check after each bombardment the conditions of the disease organisms in his cultures to see if anything had happened to them. He just had to hunt by trial and error a frequency, which might do something to a certain organism. Then, if he found one for that disease, he would have to start all over again on the next kind.

Prepares Slides

The scientist took first a culture of B. Coli; the organisms, which always seem to accompany the agency of typhoid fever yet apparently, are harmless themselves. He prepared microscope slides from the culture and saw that his little subjects were alive. Then he turned the ray on them, tuned it to a certain frequency, then took the slide back to the microscope to see if anything had happened. He did this time after time and the b. coli still remained discouragingly healthy. Then one day, Rife recounted, a culture of the organisms which had been bombarded with a certain frequency appeared different under the microscope. They seemed lifeless! He tried to get them to grow, to reproduce in their laboratory media. He tried that same frequency on culture after culture of b. coli and always the results were the same. The organisms were dead. "It did kill them!" Rife told himself. And probably, cool, conservative scientists though he is, he allowed himself to hope that he, Royal Raymond Rife, had found that 'bullet" which scientist have ought for years, that "magic bullet' which would surely, certainly slay mankind's diseases.

Gets Expert Advice

But one batch of dead germs meant little to medical science or to Rife. He repeated the trial and error search on other kinds of organisms. He put an assistant, Henry Siner, a San Diego laboratory technician to work. He asked eminent medical men over the country to advise with him on such problems as his diagnoses of cancer in his laboratory hunts and tests and they did. Dr. Milbank Johnson a prominent Los Angeles physician and surgeon, he related, went even further, joined him in some of the work and "aided greatly, with untiring efforts and cooperation." Dr. Arthur I. Kendall, head of bacteriological research in Northwestern University's medical school at Chicago, worked with him in another phase of the study and experimentation.

Rife and these associates and aids, he recounted, cultivated, cultivated, cultivated and cultivated organisms; shot, shot and shot with the ray; inoculated, inoculated and inoculated experimental animals to test effects upon disease organisms thus introduced into living bodies

and made active there. Hoyland joined in the work and he and Rife built better, better and better machines for generating the frequencies d directing them upon the tiny enemies of the human race. Now, he reported, the mortal oscillatory rates for many, many organisms has been found and recorded and the ray can be tuned to a germ's recorded frequency and turned upon that organism with assurance that the organism will be killed.

Virus Hunt Succeeds

Inseparably linked with the ray development, Rife added, were two others almost equal in importance to the other discovery. These were a search for filter-passing viruses, those minute disease causing substances which sneak through the finest filters which scientists can make and so are extremely difficult to capture and study, and the designing and building of a microscope suited to the search, a microscope which would reveal to his eye viruses never seen before. Both undertakings were successful, Rife commented. Eight years ago he began hunting the viruses with the microscope, and the satisfactory results, he said, made possible extension of the ray's use beyond the known disease organisms to others unseen and unknown before he ferreted the out. One of these previously undiscovered organisms, the scientist said, was that which he found in human carcinoma, or cancer.

Using a special media or germ food, made from materials suggested by Kendall, he prepared a culture from a human cancer. He gave the culture special treatment and incubation, he related. Finally it was ready and he slipped a slide of it under his microscope, adjusted the instrument and anxiously fitted his gaze to the eyepiece. He saw on the slide a number of moving red-purple granules, the tiniest bits of microscopic life ever seen, only one-twentieth of a micron in length, so tiny that 500,00 of them placed end to end would span only the length of an inch on a ruler, he reported.

Produces Cancer

And with those little red-purple granules, Rife said, he produced typical, human cancer in rats! The scientist frankly declared that he cannot be positive yet that the tiny organisms are the direct cause of cancer. They have to be carried through three test of experimental animals before they produce the cancerous tumors, he explained. And they seem to have five forms, each requiring a different mortal oscillatory rate, he added. "There still is much work to be done," Rife said, " in the study of this organism, the search for others and the finding of other lethal frequencies. But I think, "he added, smiling, "that we can justly say that the results so far are very encouraging"